9 August 2010 – Ocean Veritas Status Report - Cruise 13 - Day 3
Complied by: Don Aurand, Ecosystem Management and Associates (for BP)

The plan for sampling today was to sample along Transect 1 delineated on Figure 2 (Subsurface Monitoring Program) provided by the Subsurface Monitoring Unit (SMU) in their Daily Mission Guidance Issued on August 8, 2010.

The morning weather today was partly cloudy but seeming to clear, sea state a solid 3 feet, winds 10 to 15 kts. Instead of clearing, heavy squalls with winds above 20 kts and driving rain began mid-morning and continued intermittently until evening. Temperatures were moderate. Rain forced several sampling delays.

Stations 1 through 4 on Transect 1 were sampled. These are identified as OV168 through OV171. Station OV168 is fairly close to OV162, which was sampled on Day 1 of this cruise (7 August). Water depths increased steadily down the transect, from approximately 1200 m at OV168 to nearly 2000 m at OV171. There was no fluorometric signal at any of the four stations, although with imagination you can see a hint of one in the fluorometer trace from OV170 in the same depth as the dissolved oxygen dip. There was a dissolved oxygen response at the first three stations, increasing in magnitude from OV168 through OV170. The signal at OV168 was similar to that seen at OV162 on 7 August. There was no indication of any dissolved oxygen anomaly at OV171 (see the summary table and Figure 1).

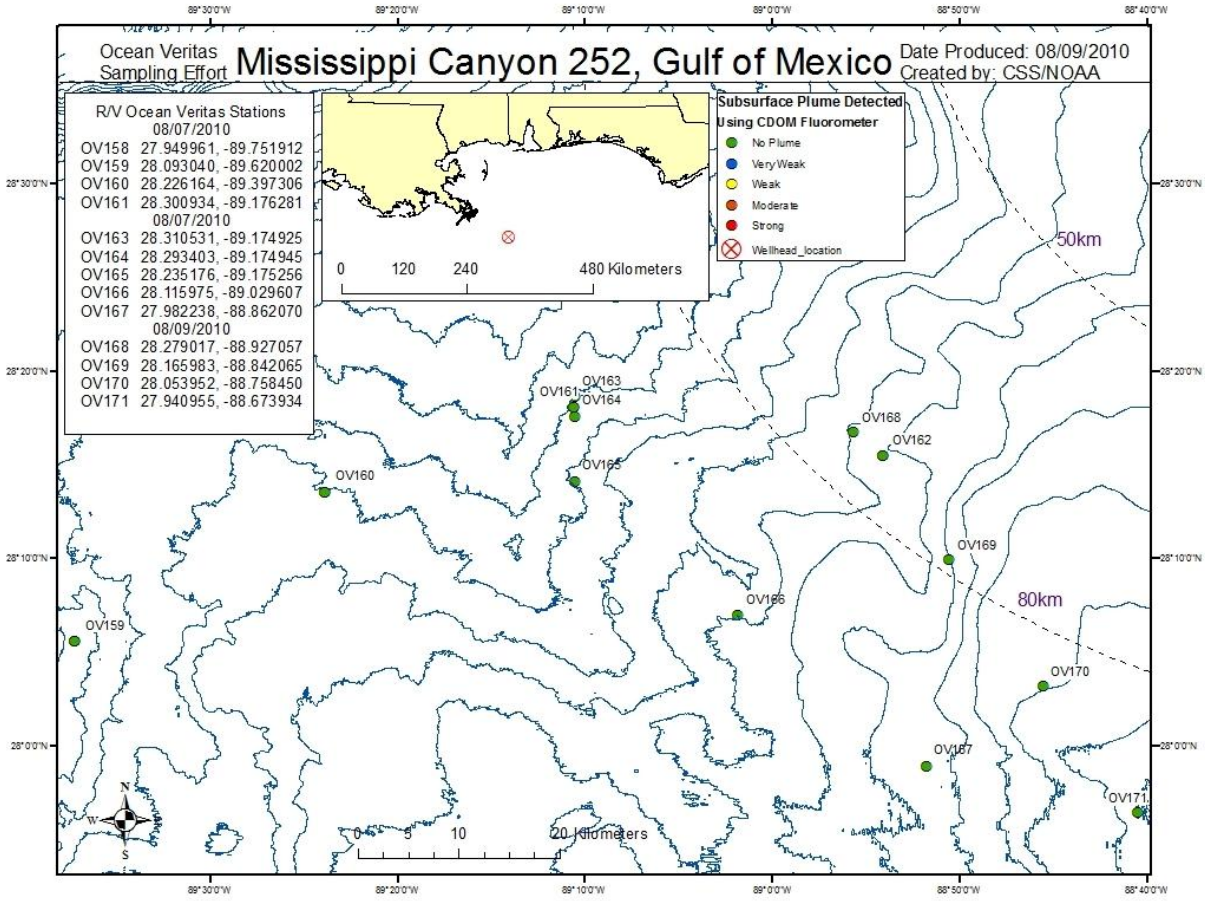
No indications of oil or dispersant were found with the LISST particle analyzer or the fluorescence intensity ratios.

Station	Position on Transect	Fluorescence Signal	Signal Depth	Comment
OV168	Transect 1, Station 1	No Signal	-	No fluorometric signal, but a weak dissolved oxygen dip from 1057 to 1133 m (reduction of less than 0.25 mg/L).
OV169	Transect 1, Station 2	No Signal	-	No fluorometric signal, but two dissolved oxygen dips, the first from 1038 to 1099 m, with a peak reduction of approximately 0.75 mg/L at 1070 m and a second smaller reduction of approximately 0.25 mg/L from 1119 to 1144 m.
OV170	Transect 1, Station 3	No Signal	-	No fluorometric signal, but a reduction in dissolved oxygen from 1040 to 1147 m, with a peak reduction of approximately 1.0 mg/L at 1103 m.
OV171	Transect 1, Station 4	No Signal	-	No fluorometric signal and no reduction in dissolved oxygen.

Samples for Rotoxkit M analysis collected yesterday from stations OV164 through OV167 were analyzed today and there was no significant mortality in any sample. Survival was quite high again today and almost no mortality was observed. Samples were collected today from all stations (OV168 through OV171) and results will be available tomorrow.

No air quality monitoring was conducted since CTEH recalled their sampling technician prior to departure yesterday.

Figure 1. Station Locations for 8 August 2010.



Staffing, R/V Ocean Veritas, Cruise 13 August 7-9, 2010		
Name	Affiliation	Role
Scientific Staff		
Don Aurand	EM&A	Chief Scientist
Michelle Kenny	DFO	Particle Analysis
Jay Bugden	DFO	Particle Analysis
Tim Mayer	EM&A	Toxicology
Kyle Freeman	Entrix	Sampling Technician
Mark Deuger	Entrix	Sampling Technician
Michelle Stogner	NOAA	Data Management
Dan Pisegna	Fugro	Party Chief Oceanography
Ward Bekins	Fugro	Oceanography Team
Hannuman Bull	Fugro	Oceanography Team
Clay Harbich	Fugro	Oceanography Team
Mike Guzman	Fugro Chance	Navigation
Manuel Schmaidick	EPA	Observer
Ship's Company		
Perry Rosenthal	Master	
Guy Piercey	Second Captain	
Eric Houtary	Chief Mate	
Bud Hanson	Second Mate	
Doug Brock	Chief Engineer	
Lorenzo Cristano	QMED-1	
Mohammed Nartay	QMED-2	
Tim Pitarys	AB-1	
Nate Compton	AB-2	
Jose Valentine	AB-3	
Dakota Russel	Ordinary	
Aaron Lanet	Cook	
Albert Massaru	Assistant Cook	